

COMPANY SANITIZED

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July 13, 1994

(A)

8E HQ 0794-
13112S

Express Mail - Return Receipt Requested

Document Processing Center (TS-790)
Attention 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street SW
Washington, D.C. 20460

8E HQ-94-13112

88940000354

94 JUL 18 AM 8:06

RECEIVED

Dear 8(e) Coordinator:

Propane, 1,1,1,3,3-pentafluoro-
CAS Registry Number 460-73-1

This letter is to inform you of the preliminary results of an acute inhalation study we recently conducted with this material.

Four mice per group were exposed to the test material by inhalation. Exposure to an atmospheric concentration of approximately 85,000 ppm for two hours caused hyperactivity, incoordination and a loss of response to sound. After the first two hours of exposure the concentration was increased to approximately 145,000 ppm for two hours. The respiration rate in the mice was reduced at the higher concentration. One mouse was found dead at the end of the exposure. The other three mice recovered within one hour after the end of the exposure and no clinical signs of toxicity were observed for the following four days. Mice exposed to approximately 50,000 ppm for four hours showed hyperactivity during the exposure, but recovered quickly after the end of the exposure.

The effects described above are being reported in accordance with the guidance given in the EPA TSCA Section 8(e) Reporting Guide (June, 1991). We do not, however, believe that the information described above reasonably supports a conclusion of "substantial risk".

The test material is a research chemical and the exposure potential is very limited. We are claiming [red bracket] the company name as confidential business information.

Sincerely,

RECEIVED
8-8-94

TSCA 8(e) Submission: Propane, 1,1,1,3,3-pentafluoro-
CAS Registry Number 460-73-1

bcc: P.V. Tebo
M.H. Christman
B.U. Gravely
F.P. Mulherin (FP)
D.L. Klug (FP)
B.H. Minor (FP)
V.R. Rice
S.L. Fidance
A.M. Kaplan
H.J. Trochimowicz
P.H. Lieder
D.A. Keller
Technical File

Triage of 8(e) Submissions

Date sent to triage: OCT 14 1994

NON-CAP

CAP

Submission number: 13112 A

TSCA Inventory:

Y

N

D

Study type (circle appropriate):

Group 1 - Dick Clements (1 copy total)

ECO

AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX

SBTOX

SEN

w/NEUR

Group 3 - Elizabeth Margosches (1 copy each)

STOX

CTOX

EPI

RTOX

GTOX

STOX/ONCO

CTOX/ONCO

IMMUNO

CYTO

NEUR

Other (FATE, EXPO, MET, etc.):

Notes:

THIS IS THE ORIGINAL 8(e) SUBMISSION; PLEASE REFILE AFTER TRIAGE DATABASE ENTRY

For Contractor Use Only

entire document: 0 1 2 pages 1 pages 1

Notes:

Contractor reviewer : NEB

Date: 9/7/94

CECATSTRAGE TRACKING DBASE ENTRY FORM

CTCATS DATA: Submission # REGD. 0794-1311Z(5) SRO. A

I TYPE: INT SUPP FLWP

SUBMITTER NAME: Confidential

INFORMATION REQUESTED: FLWP DATE:
0501 NO INFO REQUESTED
0502 INFO REQUESTED (TECH)
0503 INFO REQUESTED (VOL ACTIONS)
0504 INFO REQUESTED (REPORTING RATIONALE)
DISPOSITION:
0639 REFER TO CHEMICAL SCREENING
0678 CAP NOTICEVOLUNTARY ACTIONS
0401 NO ACTION REQUIRED
0402 STUDIES PLANNED/INITIATED
0403 NOTIFICATION OF WORK IN PROGRESS
0404 LABEL/MSDS CHANGES
0405 PROCESS/HANDLING CHANGES
0406 APP/USE DISCONTINUED
0407 PRODUCTION DISCONTINUED
0408 CONFIDENTIAL

SUB DATE: 07/13/94 OTS DATE: 07/18/94 CSRAD DATE: 08/08/94

CHEMICAL NAME:

Propane, 1,1,1,3,3-pentafluoro-

CAS#

460-73-1

INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C
0201 ONCO (HUMAN)	01 02 04	0216 EPICLIN	01 02 04	0241 IMMUNO (ANIMAL)	01 02 04
0202 ONCO (ANIMAL)	01 02 04	0217 HUMAN EXPOS (PROD CONTAM)	01 02 04	0242 IMMUNO (HUMAN)	01 02 04
0203 CELL TRANS (IN VITRO)	01 02 04	0218 HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243 CHEM/PHYS PROP	01 02 04
0204 MUTA (IN VITRO)	01 02 04	0219 HUMAN EXPOS (MONITORING)	01 02 04	0244 CLASTO (IN VITRO)	01 02 04
0205 MUTA (IN VIVO)	01 02 04	0220 ECO/AQUA TOX	01 02 04	0245 CLASTO (ANIMAL)	01 02 04
0206 REPRO/TERATO (HUMAN)	01 02 04	0221 ENV. OCCUR/REL/FATE	01 02 04	0246 CLASTO (HUMAN)	01 02 04
0207 REPRO/TERATO (ANIMAL)	01 02 04	0222 EMER INCI OF ENV CONTAM	01 02 04	0247 DNA DAM/REPAIR	01 02 04
0208 NEURO (HUMAN)	01 02 04	0223 RESPONSE REQUEST DELAY	01 02 04	0248 PROD/USE/PROC	01 02 04
0209 NEURO (ANIMAL)	01 02 04	0224 PRODCOMP/ID	01 02 04	0251 MSDS	01 02 04
0210 ACUTE TOX. (HUMAN)	01 02 04	0225 REPORTING RATIONALE	01 02 04	OTHER	01 02 04
0211 CHR. TOX. (HUMAN)	01 02 04	0226 CONFIDENTIAL	01 02 04		
0212 ACUTE TOX. (ANIMAL)	01 02 04	0227 ALLERG (HUMAN)	01 02 04		
0213 SUB ACUTE TOX (ANIMAL)	01 02 04	0228 ALLERG (ANIMAL)	01 02 04		
0214 SUB CHRONIC TOX (ANIMAL)	01 02 04	0229 METAB/PHARMACO (ANIMAL)	01 02 04		
0215 CHRONIC TOX (ANIMAL)	01 02 04	0240 METAB/PHARMACO (HUMAN)	01 02 04		

TRIAGE DATA: NON-CBI INVENTORY

YES

ONGOING REVIEW
YES (DROP/REFER)SPECIES
MusTOXICOLOGICAL CONCERN:
LOW

USE:

PRODUCTION:
Research

CAS SR

NO

NO (CONTINUE)

MED
HIGH

DETERMINE

REFER:

COMMENTS:

Non-Cap

8(e)	TRIAGE ASSESSMENT
8(E)-13112A	
TOX CONCERN L	
ACUTE INHALATION TOXICITY IN MICE IS LOW CONCERN. GROUPS OF 4 MICE WERE EXPOSED TO CONCENTRATIONS OF 50,000 PPM FOR 4 HOURS, 85000 PPM FOR 2 HOURS OR 145,000 PPM FOR 2 HOURS. 1/4 DIED DURING EXPOSURE IN THE HIGH DOSE GROUP. CLINICAL SIGNS DURING TOXICITY INCLUDED HYPERACTIVITY, INCOORDINATION AND LOSS OF RESPONSE TO SOUND. THE RESPIRATION RATE WAS REDUCED AT THE HIGH DOSE.	